CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE RED RIVER WATERSHED

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
iii. Description of nonpoint source contributions

The Tennessee portion of the Red River Watershed (HUC 05130206) has been delineated into six HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

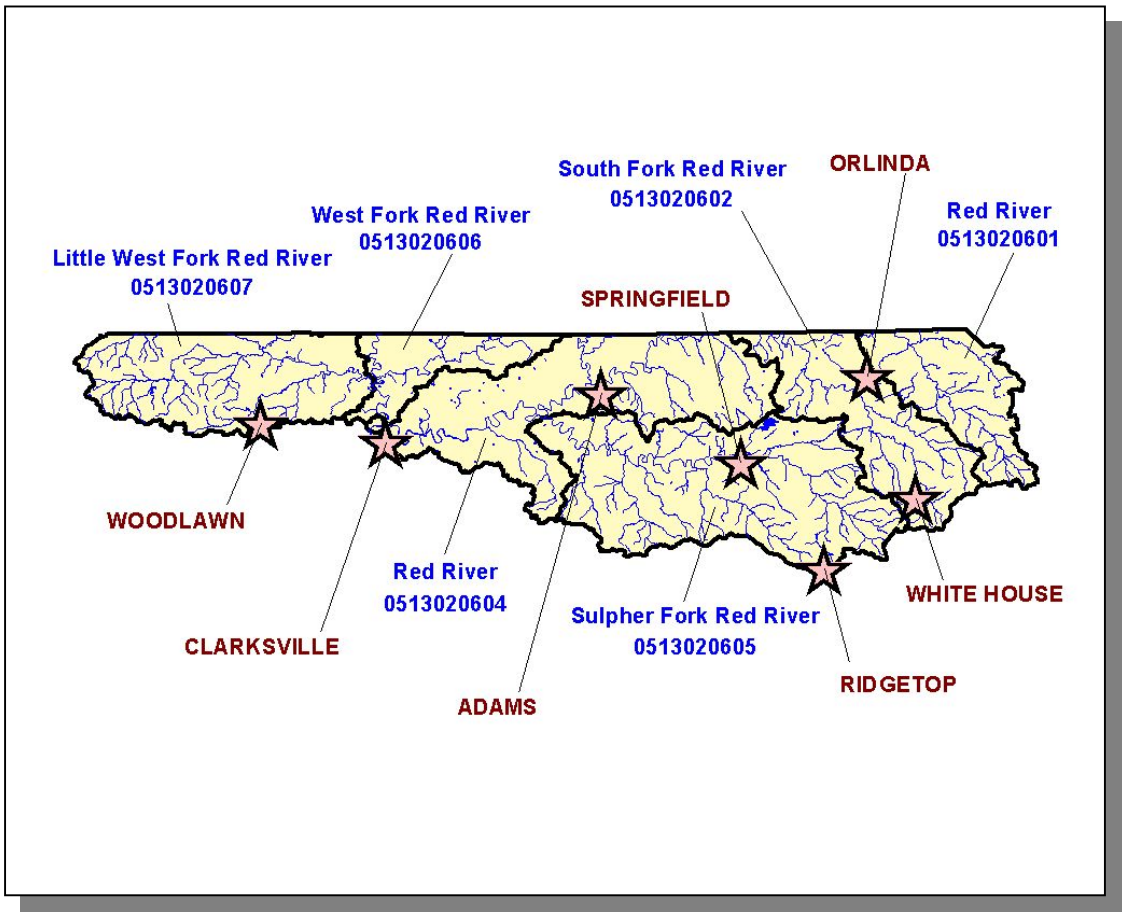

Figure 4-1. The Tennessee Portion of the Red River Watershed is Composed of Six USGS-Delineated Subwatersheds (10-Digit Subwatersheds). *Locations of Adams, Clarksville, Orlinda, Ridgetop, Springfield, White House, and Woodlawn are shown for reference.*

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the Red River Watershed.

HUC-10	HUC-12
0513020601	051302060101 (Red River)
	051302060102 (Red River)
0513020602	051302060201 (South Fork Red River)
	051302060202 (South Fork Red River)
0513020604	051302060401 (Red River)
	051302060402 (Spring Creek)
	051302060403 (Red River)
	051302060404 (Elk Fork Creek)
	051302060405 (Red River)
	051302060406 (Passenger Creek)
	051302060407 (Red River)
0513020605	051302060501 (Sulphur Fork Creek)
	051302060502 (Sulphur Fork Creek)
	051302060503 (Carr Creek)
	051302060504 (Sulphur Fork Creek)
	051302060505 (Millers Creek)
	051302060506 (Sulphur Fork Creek)
0513020606	051302060603 (West Fork Red River)
	051302060604 (Spring Creek)
	051302060605 (West Fork Red River)
0513020607	051302060701 (Noahs Springs Branch)
	051302060702 (Piney Fork Creek)
	051302060703 (Little West Fork Red River)
	051302060704 (Fletchers Fork)
	051302060705 (Little West Fork Red River)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*